



SIMLAB 2024

Procedural Simulation

****IMPORTANT NOTICE:** access to simulation workshops is limited to pre-registered delegates

About the workshops: During each of these 2-hour sessions, hands-on training will be provided on specific perioperative procedures. Instructors will demonstrate the skills and then guide, observe and provide feedback to participants while they perform the procedures on their own. A variety of live models, virtual reality simulators, part task trainers and ultrasound machines will be available to facilitate and improve learning.

Programme overview: The 2024 procedural simulation programme includes the following topics:



Emergency front of neck access and airway ultrasound



Cardiac and vascular Point-of-Care Ultrasound (POCUS)



Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access



Brain ultrasound: an open window to the brain of your patient



Lung and gastric ultrasound

Specific learning objectives and target audience are defined for each workshop topic.



PRO

Procedural
Workshop

Emergency front of neck access and airway ultrasound

**This workshop is repeated twice

Learning objectives: During this session, participants will:

- learn and perform basic assessment of the airway using ultrasound;
- learn how to recognize and locate the cricoid membrane using ultrasound;
- learn and perform surgical cricothyrotomy based on the most recent guidelines;
- practice Scalpel cricothyrotomy and Seldinger method cricothyrotomy.

Target audience: *Residents, fellows and practitioners interested in improving/rehearsing their skills and knowledge in the field.*

Saturday
25 May 2024
10:30-12:30
SimSpace 2

SIMPRO1
Emergency front of neck access and airway ultrasound (1)

Saturday
25 May 2024
13:30-15:30
SimSpace 2

SIMPRO2
Emergency front of neck access and airway ultrasound (2)



PRO

Procedural
Workshop

Lung and gastric ultrasound

**This workshop is repeated twice

Learning objectives: During this session, participants will:

- Learn how to perform and interpret normal lung ultrasound Protocol;
- Assess and recognise lung sliding, “A” and “B-lines”;
- Learn how to diagnose major lung ultrasound pathology;
- Learn how to perform gastric ultrasound;
- Learn how to recognize an “empty stomach” and interpret stomach content (and volume);
- Learn how to use ultrasound to guide pleural drainage;
- Perform pleural drainage procedure.

Target audience: *Residents, fellows and practitioners interested in improving/rehearsing their skills and knowledge in the field.*

Saturday
25 May 2024
16:00–18:00
SimSpace 2

SIMPRO3
Lung and gastric ultrasound (1)

Sunday
26 May 2024
08:30–10:30
SimSpace 2

SIMPRO4
Lung and gastric ultrasound (2)



PRO

Procedural
Workshop

Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access

**This workshop is repeated twice

Learning objectives: During this session, participants will:

- Learn indication and contra-indication of different vascular access in the paediatric patient;
- Learn preferred medication administration routes for specific situations;
- Perform umbilical vein catheterisation and intraosseous access;
- Practice ultrasound-guided vascular access

Target audience: *Residents, fellows and practitioners interested in improving/rehearsing their skills and knowledge in the field.*

Sunday
26 May 2024
11:00-13:00
SimSpace 2

SIMPRO5

Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access (1)

Sunday
26 May 2024
13:30-15:30
SimSpace 2

SIMPRO6

Ultrasound-guided paediatric vascular access, umbilical vein catheterisation and intraosseous access (2)



PRO

Procedural
Workshop

BASIC brain ultrasound: an open window to the brain of your patient

Learning objectives: During this session, participants will:

- learn how to perform basic assessment of the brain – recognize basic method of the five reference planes (temporal window);
- learn how to determine structural problems (median shift, ventricular system problems, etc.);
- learn how to visualize anterior and posterior segments of the Willis polygon through the temporal window;
- learn how to assess the intracranial pressure;
- learn the basics of the Transcranial Color-Coded Sonography (TCCS);
- Eyeball/optic nerve sonography how and why (new perspectives).

Target audience: *“Intermediate” neuro-anaesthetists, neuro-intensivists, intensivists or emergency physicians interested in developing/improving their skills and knowledge in the field.*

Sunday
26 May 2024
16:00–18:00
SimSpace 2

SIMPRO7

BASIC brain ultrasound: an open window to the brain of your patient



PRO

Procedural
Workshop

ADVANCED brain ultrasound: an open window to the brain of your patient

Learning objectives: During this session, participants will learn:

- the advanced and integrated handling (BW, Doppler and PW) of the neurosonological method of the five reference brain planes - Complete examination at the patient's bed;
- how to handle the fast neurosonological sequence NEUROFAST for a global brain assessment (integration and complementarity with Brain Function Monitoring);
- the indirect (assessment) and direct (calculation) measurement of ICP;
- how to use of the image fusion modality (neurosono/CTscan, neurosono/MRI) at the patient's bed: development and future perspectives.

The session will also include interactive discussion of neurosonological imaging cases in everyday advanced practice.

Target audience: *"Skilled" neuro-anaesthetists, neuro-intensivists, intensivists or emergency physicians interested in developing/improving their skills and knowledge in the field.*

Monday
27 May 2024
08:00-10:00
SimSpace 2

SIMPRO8

ADVANCED brain ultrasound: an open window to the brain of your patient



PRO

Procedural
Workshop

Cardiac and vascular Point-of-Care Ultrasound (POCUS)

**This workshop is repeated twice

Learning objectives: During this session, participants will:

- learn indications and how to perform a focused cardiac ultrasound examination using Transthoracic echocardiography (TTE);
- practice focused cardiac ultrasound examination on live models and on a virtual simulator;
- learn how to recognize and assess pericardial effusion/cardiac tamponade, left and right ventricular size and function, intravascular volume status;
- learn how to recognize and assess the thoracoabdominal aorta, the inferior vena cava and the proximal deep veins.

Target audience: *"Novice and intermediate" residents, fellows and practitioners interested in improving their skills and knowledge in the field.*

Monday
27 May 2024
10:30-12:30
SimSpace 2

SIMPRO9
Cardiac and vascular Point-of-Care Ultrasound (POCUS) (1)

Monday
27 May 2024
13:00-15:00
SimSpace 2

SIMPRO10
Cardiac and vascular Point-of-Care Ultrasound (POCUS) (2)